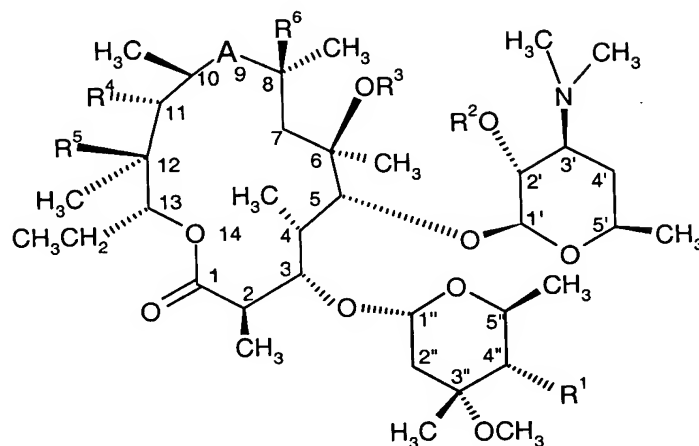


Amendments to the claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original): A compound of formula (I)



(I)

wherein

A is a bivalent radical selected from $-C(O)-$, $-C(O)NH-$, $-NHC(O)-$, $-N(R^7)-CH_2-$, $-CH_2-N(R^7)-$, $-CH(NR^8R^9)-$ and $-C(=NR^{10})-$;

R^1 is $-OC(O)(CH_2)_dXR^{11}$;

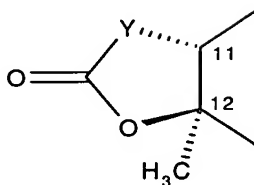
R^2 is hydrogen or a hydroxyl protecting group;

R^3 is hydrogen, C_{1-4} alkyl, or C_{3-6} alkenyl optionally substituted by 9 to 10 membered fused bicyclic heteroaryl;

R^4 is hydroxy, C_{3-6} alkenyloxy optionally substituted by 9 to 10 membered fused bicyclic heteroaryl, or C_{1-6} alkoxy optionally substituted by C_{1-6} alkoxy or $-O(CH_2)_eNR^7R^{12}$,

R^5 is hydroxy, or

R^4 and R^5 taken together with the intervening atoms form a cyclic group having the following structure:



wherein Y is a bivalent radical selected from $-\text{CH}_2-$, $-\text{CH}(\text{CN})-$, $-\text{O}-$, $-\text{N}(\text{R}^{13})-$ and $-\text{CH}(\text{SR}^{13})-$;

R^6 is hydrogen or fluorine;

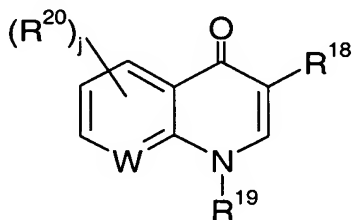
R^7 is hydrogen or C_{1-6} alkyl;

R^8 and R^9 are each independently hydrogen, C_{1-6} alkyl, $-\text{C}(=\text{NR}^{10})\text{NR}^{14}\text{R}^{15}$ or $-\text{C}(\text{O})\text{R}^{14}$, or

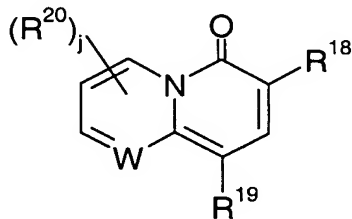
R^8 and R^9 together form $=\text{CH}(\text{CR}^{14}\text{R}^{15})_{\text{aryl}}$, $=\text{CH}(\text{CR}^{14}\text{R}^{15})_{\text{heterocyclyl}}$, $=\text{CR}^{14}\text{R}^{15}$ or $=\text{C}(\text{R}^{14})\text{C}(\text{O})\text{OR}^{14}$, wherein the alkyl, aryl and heterocyclyl groups are optionally substituted by up to three groups independently selected from R^{16} ;

R^{10} is $-\text{OR}^{17}$, C_{1-6} alkyl, $-(\text{CH}_2)_g\text{aryl}$, $-(\text{CH}_2)_g\text{heterocyclyl}$ or $-(\text{CH}_2)_h\text{O}(\text{CH}_2)_i\text{OR}^{17}$, wherein each R^{10} group is optionally substituted by up to three groups independently selected from R^{16} ;

R^{11} is a heterocyclic group having the following structure:



or



R^{12} is hydrogen or C_{1-6} alkyl;

R¹³ is hydrogen or C₁₋₄alkyl optionally substituted by a group selected from optionally substituted phenyl, optionally substituted 5 or 6 membered heteroaryl and optionally substituted 9 to 10 membered fused bicyclic heteroaryl;

R¹⁴ and R¹⁵ are each independently hydrogen or C₁₋₆alkyl;

R¹⁶ is halogen, cyano, nitro, trifluoromethyl, azido, -C(O)R²¹, -C(O)OR²¹, -OC(O)R²¹, -OC(O)OR²¹, -NR²²C(O)R²³, -C(O)NR²²R²³, -NR²²R²³, hydroxy, C₁₋₆alkyl, -S(O)_kC₁₋₆alkyl, C₁₋₆alkoxy, -(CH₂)_maryl or -(CH₂)_mheteroaryl, wherein the alkoxy group is optionally substituted by up to three groups independently selected from -NR¹⁴R¹⁵, halogen and -OR¹⁴, and the aryl and heteroaryl groups are optionally substituted by up to five groups independently selected from halogen, cyano, nitro, trifluoromethyl, azido, -C(O)R²⁴, -C(O)OR²⁴, -OC(O)OR²⁴, -NR²⁵C(O)R²⁶, -C(O)NR²⁵R²⁶, -NR²⁵R²⁶, hydroxy, C₁₋₆alkyl and C₁₋₆alkoxy;

R¹⁷ is hydrogen, C₁₋₆alkyl, C₃₋₇cycloalkyl, C₃₋₆alkenyl or a 5 or 6 membered heterocyclic group, wherein the alkyl, cycloalkyl, alkenyl and heterocyclic groups are optionally substituted by up to three substituents independently selected from optionally substituted 5 or 6 membered heterocyclic group, optionally substituted 5 or 6 membered heteroaryl, -OR²⁷, -S(O)_nR²⁷, -NR²⁷R²⁸, -CONR²⁷R²⁸, halogen and cyano;

R¹⁸ is hydrogen, -C(O)OR²⁹, -C(O)NHR²⁹, -C(O)CH₂NO₂ or -C(O)CH₂SO₂R⁷;

R¹⁹ is hydrogen, C₁₋₄alkyl optionally substituted by hydroxy or C₁₋₄alkoxy, C₃₋₇cycloalkyl, or optionally substituted phenyl or benzyl;

R²⁰ is halogen, C₁₋₄alkyl, C₁₋₄thioalkyl, C₁₋₄alkoxy, -NH₂, -NH(C₁₋₄alkyl) or -N(C₁₋₄alkyl)₂;

R²¹ is hydrogen, C₁₋₁₀alkyl, -(CH₂)_paryl or -(CH₂)_pheteroaryl;

R²² and R²³ are each independently hydrogen, -OR¹⁴, C₁₋₆alkyl, -(CH₂)_qaryl or -(CH₂)_qheterocyclyl;

R²⁴ is hydrogen, C₁₋₁₀alkyl, -(CH₂)_raryl or -(CH₂)_rheteroaryl;

R²⁵ and R²⁶ are each independently hydrogen, -OR¹⁴, C₁₋₆alkyl, -(CH₂)_saryl or -(CH₂)_sheterocyclyl;

R²⁷ and R²⁸ are each independently hydrogen, C₁₋₄alkyl or C₁₋₄alkoxyC₁₋₄alkyl;

R²⁹ is hydrogen,
C₁₋₆alkyl optionally substituted by up to three groups independently selected from halogen, cyano, C₁₋₄alkoxy optionally substituted by phenyl or C₁₋

4alkoxy, -C(O)C₁₋₆alkyl, -C(O)OC₁₋₆alkyl, -OC(O)C₁₋₆alkyl, -OC(O)OC₁₋₆alkyl, -C(O)NR³²R³³, -NR³²R³³ and phenyl optionally substituted by nitro or -C(O)OC₁₋₆alkyl,
-(CH₂)_wC₃₋₇cycloalkyl,
-(CH₂)_wheterocyclyl,
-(CH₂)_wheteroaryl,
-(CH₂)_waryl,
C₃₋₆alkenyl, or
C₃₋₆alkynyl;

R³⁰ is hydrogen, C₁₋₄alkyl, C₃₋₇cycloalkyl, optionally substituted phenyl or benzyl, acetyl or benzoyl;

R³¹ is hydrogen or R²⁰, or R³¹ and R¹⁹ are linked to form the bivalent radical -O(CH₂)₂- or -(CH₂)_t-;

R³² and R³³ are each independently hydrogen or C₁₋₆alkyl optionally substituted by phenyl or -C(O)OC₁₋₆alkyl, or

R³² and R³³, together with the nitrogen atom to which they are bound, form a 5 or 6 membered heterocyclic group optionally containing one additional heteroatom selected from oxygen, nitrogen and sulfur;

X is -U(CH₂)_vB-;

U is -N(R³⁰)- and B is -O- or -S(O)_z, or

U is -O- and B is -N(R³⁰)- or -O-;

W is -C(R³¹)- or a nitrogen atom;

d is 0 or an integer from 1 to 5;

e is an integer from 2 to 4;

f, g, h, m, p, q, r and s are each independently integers from 0 to 4;

i is an integer from 1 to 6;

j, k, n and z are each independently integers from 0 to 2;

t is 2 or 3;

v is an integer from 1 to 8;

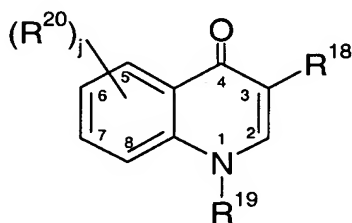
or a pharmaceutically acceptable derivative thereof.

2. (Original): A compound according to claim 1 wherein A is -C(O)- or -N(R⁷)-CH₂-.

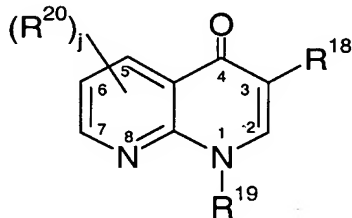
3. (Currently amended): A compound according to claim 1 or claim 2 wherein d is 2.

4. (Currently amended): A compound according to claim 1 ~~any one of the preceding claims~~ wherein v is 2.

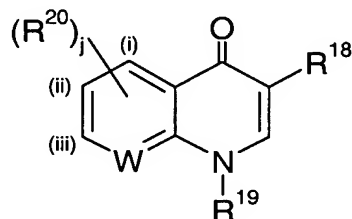
5. (Currently amended): A compound according to claim 1 ~~any one of the preceding claims~~ wherein R¹¹ is a heterocyclic group of the following formula:



or



wherein the heterocyclic is linked in the 6 or 7 position and j, R¹⁸, R¹⁹ and R²⁰ are as defined in claim 1, or a heterocyclic group of the following formula:



wherein the heterocyclic is linked in the (ii) or (iii) position, W is -C(R³¹)- and R³¹ and R¹⁹ are linked to form the bivalent radical -(CH₂)_t- as defined in claim 1, and j, R¹⁸, R¹⁹ and R²⁰ are as defined in claim 1.

6. (Original): A compound according to claim 1 as defined in any one of Examples 1 to 87, or a pharmaceutically acceptable derivative thereof.

7. (Original): A compound selected from:

4"-O-{3-[2-(3-carboxy-1-ethyl-4-oxo-1,4-dihydro-6-quinolinylsulfanyl)ethylamino]propionyl}-6-O-methyl-erythromycin A;

4"-O-{3-[2-(3-carboxy-1-ethyl-4-oxo-1,4-dihydro-6-quinolinylsulfanyl)ethylamino]propionyl}-6-O-methyl-11-desoxy-11-(R)-amino-erythromycin A 11,12-carbamate;

4"-O-{3-[2-(3-carboxy-1-ethyl-4-oxo-1,4-dihydro-6-quinolinylsulfanyl)ethylamino]propionyl}-azithromycin 11,12-carbonate;

4"-O-{3-[2-(6-carboxy-7-oxo-2,3-dihydro-1H,7H-pyrido[3,2,1-ij]quinolin-9-yloxy)ethylamino]propionyl}-6-O-methyl-erythromycin A;

4"-O-{3-[2-(3-carboxy-1-ethyl-4-oxo-1,4-dihydro-7-quinolinyloxy)ethylamino]propionyl}-6-O-methyl-erythromycin A;

4"-O-{3-[2-(3-carboxy-7-chloro-1-cyclopropyl-4-oxo-1,4-dihydro-6-quinolinylamino)ethoxy]propionyl}-azithromycin;

4"-O-{3-[2-(3-carboxy-1-cyclopropyl-4-oxo-1,4-dihydro-6-quinolinylamino)ethoxy]propionyl}-azithromycin;

4"-O-{3-[2-(3-carboxy-7-chloro-1-cyclopropyl-4-oxo-1,4-dihydro-6-quinolinylamino)ethoxy]propionyl}-11-O-methyl-azithromycin;

4"-O-{3-[2-(3-carboxy-7-chloro-1-cyclopropyl-4-oxo-1,4-dihydro-quinolin-6-yloxy)-ethoxy]-propionyl}-azithromycin; and

4"-O-{3-[2-(3-carboxy-1-cyclopropyl-4-oxo-1,4-dihydro-quinolin-6-yloxy)-ethoxy]-propionyl}-azithromycin;

4"-O-{3-[2-(3-carboxy-7-chloro-1-cyclopropyl-4-oxo-1,4-dihydro-6-quinolinylamino)ethoxy]propionyl}-azithromycin 11,12-cyclic carbonate;

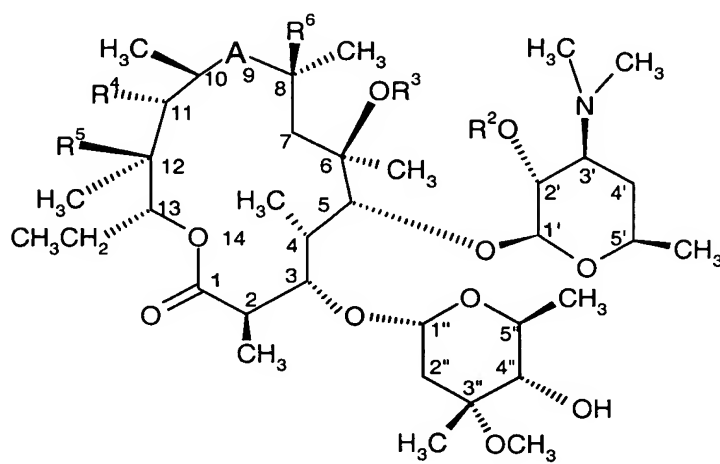
4"-O-{3-[2-(3-carboxy-1-cyclopropyl-4-oxo-1,4-dihydro-6-quinolinylamino)ethoxy]propionyl}-11-O-methyl-azithromycin;

4"-O-{3-[2-(3-carboxy-7-chloro-1-cyclopropyl-4-oxo-1,4-dihydro-quinolin-6-yloxy)-ethoxy]-propionyl}-azithromycin 11,12-carbonate;

4''-O-{3-[2-(3-carboxy-7-chloro-1-cyclopropyl-4-oxo-1,4-dihydro-6-quinolinylamino)ethoxy]propionyl}-6-O-methyl-11-desoxy-11-(R)-amino-erythromycin A 11,12-carbamate;
 4''-O-{3-[2-(3-carboxy-1-cyclopropyl-4-oxo-1,4-dihydro-quinolin-6-yloxy)-ethoxy]-propionyl}-11-O-methyl-azithromycin;
 4''-O-{3-[2-(3-carboxy-7-chloro-1-cyclopropyl-4-oxo-1,4-dihydro-quinolin-6-yloxy)ethoxy]propionyl}-6-O-methyl-erythromycin A;
 4''-O-{3-[2-(3-carboxy-1-cyclopropyl-6-fluoro-8-methoxy-4-oxo-1,4-dihydro-quinolin-7-ylamino)ethoxy]propionyl}-azithromycin;
 or a pharmaceutically acceptable derivative thereof.

8. (Original): A process for the preparation of a compound as claimed in claim 1 which comprises:

a) reacting a compound of formula (II)



(II)



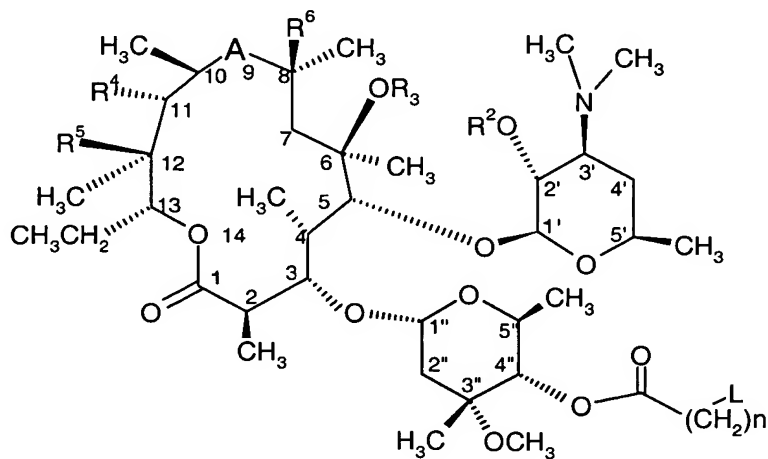
(III)

with a suitable activated derivative of the acid (III), wherein X^a and R^{11a} are X and R^{11} as defined in claim 1 or groups convertible to X and R^{11} , to produce a compound of formula (I) wherein d is an integer from 1 to 5;

b) reacting a compound of formula (II), in which the 4'' hydroxy is suitably activated, with a compound of formula X^aR^{11a} (IV), wherein R^{11a} is R^{11} as defined in claim 1

or a group convertible to R^{11} and X^a is $-U(CH_2)_vB-$ or a group convertible to $-U(CH_2)_vB-$, in which U is a group selected from selected from $-N(R^{30})-$ and $-O-$, to produce a compound of formula (I) wherein d is 0 and U is a group selected from $-N(R^{30})-$ and $-O-$;

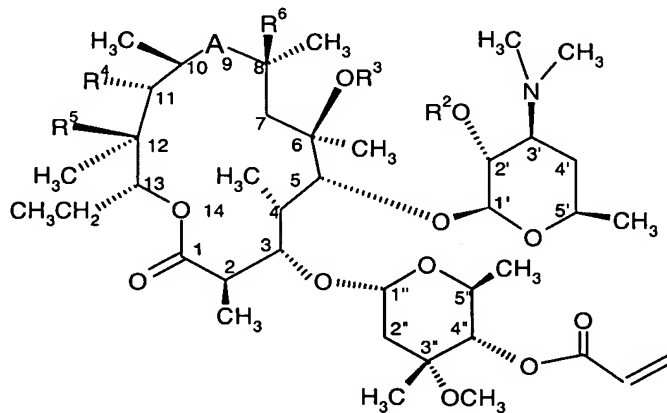
c) reacting a compound of formula (V)



(V)

with a compound of formula X^aR^{11a} (IV), wherein R^{11a} is R^{11} as defined in claim 1 or a group convertible to R^{11} and X^a is $-U(CH_2)_vB-$ or a group convertible to $-U(CH_2)_vB-$ in which U is $-N(R^{30})-$, and L is suitable leaving group, to produce a compound of formula (I) wherein U is $-N(R^{30})-$;

d) reacting a compound of formula (VII), with a compound of formula X^aR^{11a} (IV),



(VII)

wherein R^{11a} is R^{11} as defined in claim 1 or a group convertible to R^{11} , and X^a is -
 $U(CH_2)_vB$ - or a group convertible to $-U(CH_2)_vB$ - in which U is $N(R^{30})$ -, to produce
a compound of formula (I) wherein d is 2 and U is $-N(R^{30})$ -, or

e) converting one compound of formula (I) into another compound of formula (I);

and thereafter, if required, subjecting the resulting compound to one or more of the
following operations:

- i) removal of the protecting group R^2 ,
- ii) conversion of X^aR^{11a} to XR^{11} ,
- iii) conversion of B^aR^{11a} to BR^{11} , and
- iv) conversion of the resultant compound of formula (I) into a pharmaceutically
acceptable derivative thereof.

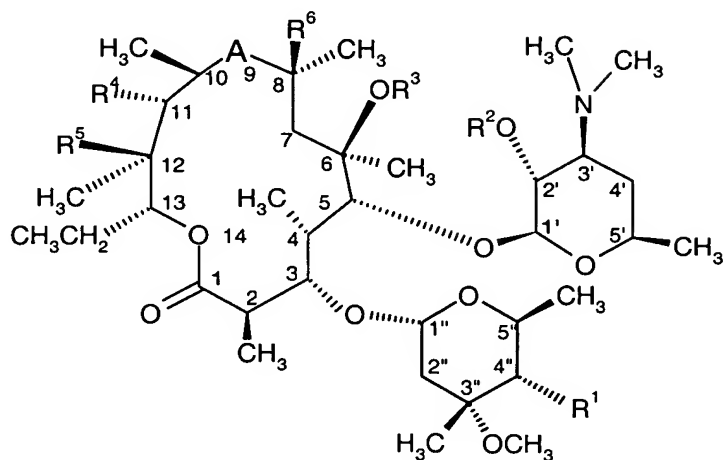
9. (Currently amended): A compound as claimed in claim 1 ~~any one of claims~~
~~1 to 7~~ for use in therapy.

Claims 10 and 11 (Cancelled).

12. (Currently amended): A method for the treatment of the human or non-
human animal body to combat microbial infection comprising administration to a
body in need of such treatment of an effective amount of a compound as claimed in
claim 1 ~~any one of claims 1 to 7~~.

13. (Currently amended): A pharmaceutical composition comprising at least
one compound as claimed in claim 1 ~~any one of claims 1 to 7~~ in association with a
pharmaceutically acceptable excipient, diluent and/or carrier.

14. (Original): A compound of formula (IA)



(IA)

wherein

A is a bivalent radical selected from $-C(O)-$, $-C(O)NH-$, $-NHC(O)-$, $-N(R^7)-CH_2-$, $-CH_2-N(R^7)-$, $-CH(NR^8R^9)-$ and $-C(=NR^{10})-$;

R^1 is $-OC(O)(CH_2)_dXR^{11}$;

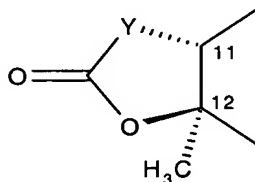
R^2 is hydrogen or a hydroxyl protecting group;

R^3 is hydrogen, C_{1-4} alkyl, or C_{3-6} alkenyl optionally substituted by 9 to 10 membered fused bicyclic heteroaryl;

R^4 is hydroxy, C_{3-6} alkenyloxy optionally substituted by 9 to 10 membered fused bicyclic heteroaryl, or C_{1-6} alkoxy optionally substituted by C_{1-6} alkoxy or $-O(CH_2)_eNR^7R^{12}$,

R^5 is hydroxy, or

R^4 and R^5 taken together with the intervening atoms form a cyclic group having the following structure:



wherein Y is a bivalent radical selected from $-CH_2-$, $-CH(CN)-$, $-O-$, $-N(R^{13})-$ and $-CH(SR^{13})-$;

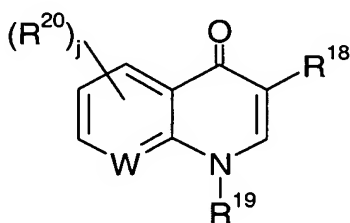
R^6 is hydrogen or fluorine;

R^7 is hydrogen or C_{1-6} alkyl;

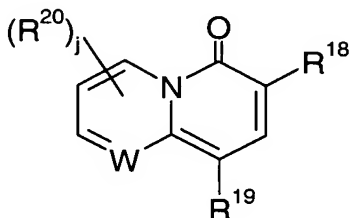
R⁸ and R⁹ are each independently hydrogen, C₁₋₆alkyl, -C(=NR¹⁰)NR¹⁴R¹⁵ or -C(O)R¹⁴, or

R⁸ and R⁹ together form =CH(CR¹⁴R¹⁵)_faryl, =CH(CR¹⁴R¹⁵)_fheterocyclyl, =CR¹⁴R¹⁵ or =C(R¹⁴)C(O)OR¹⁴, wherein the alkyl, aryl and heterocyclyl groups are optionally substituted by up to three groups independently selected from R¹⁶;
R¹⁰ is -OR¹⁷, C₁₋₆alkyl, -(CH₂)_garyl, -(CH₂)_gheterocyclyl or -(CH₂)_hO(CH₂)_iOR⁷, wherein each R¹⁰ group is optionally substituted by up to three groups independently selected from R¹⁶;

R¹¹ is a heterocyclic group having the following structure:



or



R¹² is hydrogen or C₁₋₆alkyl;

R¹³ is hydrogen or C₁₋₄alkyl substituted by a group selected from optionally substituted phenyl, optionally substituted 5 or 6 membered heteroaryl and optionally substituted 9 to 10 membered fused bicyclic heteroaryl;

R¹⁴ and R¹⁵ are each independently hydrogen or C₁₋₆alkyl;

R¹⁶ is halogen, cyano, nitro, trifluoromethyl, azido, -C(O)R²¹, -C(O)OR²¹, -OC(O)R²¹, -OC(O)OR²¹, -NR²²C(O)R²³, -C(O)NR²²R²³, -NR²²R²³, hydroxy, C₁₋₆alkyl, -S(O)_kC₁₋₆alkyl, C₁₋₆alkoxy, -(CH₂)_maryl or -(CH₂)_mheteroaryl, wherein the alkoxy group is optionally substituted by up to three groups independently selected from -NR¹⁴R¹⁵, halogen and -OR¹⁴, and the aryl and heteroaryl groups are

optionally substituted by up to five groups independently selected from halogen, cyano, nitro, trifluoromethyl, azido, $-\text{C}(\text{O})\text{R}^{24}$, $-\text{C}(\text{O})\text{OR}^{24}$, $-\text{OC}(\text{O})\text{OR}^{24}$, $-\text{NR}^{25}\text{C}(\text{O})\text{R}^{26}$, $-\text{C}(\text{O})\text{NR}^{25}\text{R}^{26}$, $-\text{NR}^{25}\text{R}^{26}$, hydroxy, C_{1-6} alkyl and C_{1-6} alkoxy; R^{17} is hydrogen, C_{1-6} alkyl, C_{3-7} cycloalkyl, C_{3-6} alkenyl or a 5 or 6 membered heterocyclic group, wherein the alkyl, cycloalkyl, alkenyl and heterocyclic groups are optionally substituted by up to three substituents independently selected from optionally substituted 5 or 6 membered heterocyclic group, optionally substituted 5 or 6 membered heteroaryl, $-\text{OR}^{27}$, $-\text{S}(\text{O})_n\text{R}^{27}$, $-\text{NR}^{27}\text{R}^{28}$, $-\text{CONR}^{27}\text{R}^{28}$, halogen and cyano;

R^{18} is hydrogen, $-\text{C}(\text{O})\text{OR}^{29}$, $-\text{C}(\text{O})\text{NHR}^{29}$ or $-\text{C}(\text{O})\text{CH}_2\text{NO}_2$;

R^{19} is hydrogen, C_{1-4} alkyl optionally substituted by hydroxy or C_{1-4} alkoxy, C_{3-7} cycloalkyl, or optionally substituted phenyl or benzyl;

R^{20} is halogen, C_{1-4} alkyl, C_{1-4} thioalkyl, C_{1-4} alkoxy, $-\text{NH}_2$, $-\text{NH}(\text{C}_{1-4}\text{alkyl})$ or $-\text{N}(\text{C}_{1-4}\text{alkyl})_2$;

R^{21} is hydrogen, C_{1-10} alkyl, $-(\text{CH}_2)_p\text{aryl}$ or $-(\text{CH}_2)_p\text{heteroaryl}$;

R^{22} and R^{23} are each independently hydrogen, $-\text{OR}^{14}$, C_{1-6} alkyl, $-(\text{CH}_2)_q\text{aryl}$ or $-(\text{CH}_2)_q\text{heterocyclyl}$;

R^{24} is hydrogen, C_{1-10} alkyl, $-(\text{CH}_2)_r\text{aryl}$ or $-(\text{CH}_2)_r\text{heteroaryl}$;

R^{25} and R^{26} are each independently hydrogen, $-\text{OR}^{14}$, C_{1-6} alkyl, $-(\text{CH}_2)_s\text{aryl}$ or $-(\text{CH}_2)_s\text{heterocyclyl}$;

R^{27} and R^{28} are each independently hydrogen, C_{1-4} alkyl or C_{1-4} alkoxy C_{1-4} alkyl;

R^{29} is hydrogen or C_{1-6} alkyl optionally substituted by up to three groups independently selected from halogen, C_{1-4} alkoxy, $-\text{OC}(\text{O})\text{C}_{1-6}$ alkyl and $-\text{OC}(\text{O})\text{OC}_{1-6}$ alkyl;

R^{30} is hydrogen, C_{1-4} alkyl, C_{3-7} cycloalkyl, optionally substituted phenyl or benzyl, acetyl or benzoyl;

R^{31} is hydrogen or R^{20} , or R^{31} and R^{19} are linked to form the bivalent radical $-\text{O}(\text{CH}_2)_2-$ or $-(\text{CH}_2)_t-$;

X is $-\text{U}(\text{CH}_2)_v\text{B}-$;

U is $-\text{N}(\text{R}^{30})-$ and B is $-\text{O}-$ or $-\text{S}(\text{O})_z$, or

U is $-\text{O}-$ and B is $-\text{N}(\text{R}^{30})-$ or $-\text{O}-$;

W is $-\text{C}(\text{R}^{31})-$ or a nitrogen atom;

d is 0 or an integer from 1 to 5;

e is an integer from 2 to 4;

f, g, h, m, p, q, r and s are each independently integers from 0 to 4;

i is an integer from 1 to 6;

j, k, n and z are each independently integers from 0 to 2;

t is 2 or 3;

v is an integer from 2 to 8;

or a pharmaceutically acceptable derivative thereof.